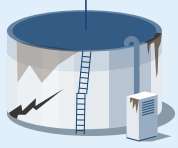


# ASSET MANAGEMENT MODEL



## WATER UTILITY CHALLENGES

01



Aging infrastructure

02

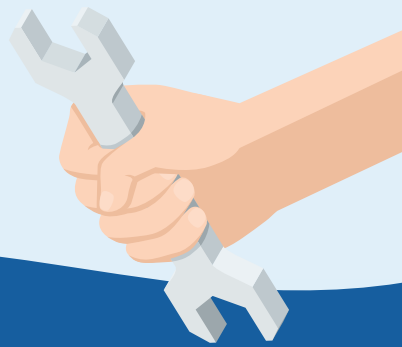


Lack of capital

03



Increasing operating costs and staffing shortages



## WHAT IS THE ASSET MANAGEMENT APPROACH?

“Asset management is a planning process that ensures that **you get the most value from each of your assets and have the financial resources to rehabilitate and replace them when necessary.**”



“Asset management also includes developing a plan to **reduce costs while increasing the efficiency and the reliability of your assets.**”

— United States Environmental Protection Agency

## THE ASSET MANAGEMENT FRAMEWORK

### THINGS TO CONSIDER

#### WHAT IS MY BEST LONG-TERM FUNDING STRATEGY?



#### WHAT IS THE CURRENT STATE OF MY ASSETS?



#### WHAT ARE MY MINIMUM LIFE-CYCLE COSTS?



#### WHAT IS MY REQUIRED LEVEL OF SERVICE?



#### WHAT ARE MY BUSINESS RISKS?



- Do we have enough funding to maintain our assets for our required level of service?

- Is our rate structure sustainable for our system's long-term needs?

- What are the costs of rehabilitation and repair for critical assets?

- What alternative strategies exist for managing operations and maintenance, personnel, and capital budget accounts?

- What strategies are the most feasible for my municipality?

- What do I own?
- Where is it?
- What is its condition?
- What is its useful life?
- What is its value?

- What level of service do my stakeholders and customers demand?

- What do the regulators require?

- What is my actual performance?

- What are the physical capabilities of my assets?

- How can assets fail?
- What are the likelihoods (probabilities) and consequences of asset failure?
- What does it cost to repair the asset?
- What are the other costs (social, environmental, etc.) that are associated with asset failure?

### CONTACT US

USG Water Solutions | 855-526-4413 | [usgwater.com](http://usgwater.com)

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USG WATER  
SOLUTIONS

# USG WATER SOLUTIONS (USG) ASSET MANAGEMENT PROGRAM



**Lifetime warranty on coatings\***

*\*For as long as the asset is in the maintenance program*



**No change orders or unplanned expenditures**



**Predictable budget with established annual fee**



**Cost of initial rehabilitation can be spread over years if necessary**

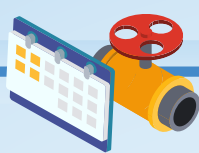


**Single source responsibility**



## CONDITION ASSESSMENT

Determine the condition of the asset



## UPFRONT RENOVATION

And forecast a future preventative maintenance schedule



## FUTURE RENOVATION IN YEAR N+1

Regular visual inspections, washouts or chemical cleanings



**100% OF MAINTENANCE RISK IS TRANSFERRED TO USG**



## PREVENTIVE MAINTENANCE

Regular visual inspections, washouts or chemical cleanings



## A SUSTAINABLE APPROACH



AWWA believes that utilities should adopt a **proactive, sustainable, solution-oriented approach** to manage assets **in support of the economic, social, and environmental needs** of the area served.”

—American Water Works Association



The USG Asset Management Program (AMPTM) is a proactive and sustainable solution that yields **environmental, economic and social benefits.**



### ENVIRONMENTAL

Prolonging asset life. Extending coating life system minimizes environmental impact to air, water and ground



### ECONOMIC

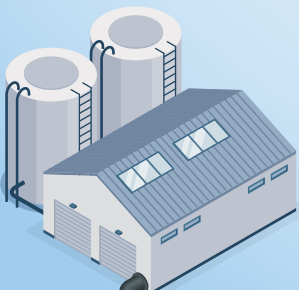
Certainty that ongoing maintenance and future renovations are funded. All maintenance risk associated to the tank (major capital asset) is transferred to the provider (USG)



### SOCIAL

Maintaining the asset helps deliver best service to clients (no service interruptions, no boil orders). Controlled operating costs do not negatively impact water rates

## APPLICABLE TO ALL ASSETS



**WATER TREATMENT PLANTS**



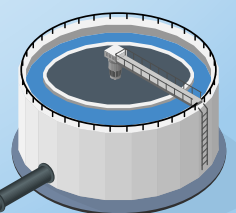
**WATER STORAGE TANKS**



**PIPELINES**



**METERS**



**WATER TREATMENT PLANTS**

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